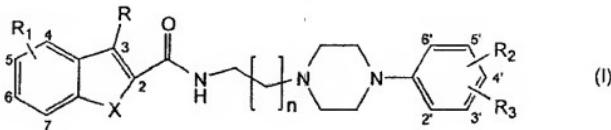


AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A compound of the general formula (I) or a pharmaceutically acceptable salt thereof



wherein:

n=1-4 and

R=hydrogen, alkyl or halogen, and

(a) X=S or O:- and wherein

(i) when R₁ is hydroxy, alkoxy, alkenyl, alkinyl, aryl, acyl, alkoxy carbonyl or cyano, each of R₂ and R₃ are independently selected from hydrogen, hydroxy, alkoxy, alkyl, alkenyl, alkinyl, aryl, halogen, trifluoromethyl, acyl, alkoxy carbonyl and cyano, and

(ii) when R₁ is hydrogen, alkyl, halogen or trifluoromethyl, R₂ is selected from hydroxy, alkenyl, alkinyl, aryl, acyl, alkoxy carbonyl and cyano and R₃ is selected from hydrogen, hydroxy, alkoxy, alkyl, alkenyl, alkinyl, aryl, halogen, trifluoromethyl, acyl, alkoxy carbonyl and cyano,

or

(b) X=NH: R₁ is selected from hydrogen, hydroxy, alkyl, alkoxy, alkenyl, alkinyl, aryl, trifluoromethyl, acyl, alkoxy carbonyl, halogen and cyano and

each of R₂ and R₃ are selected independently from hydrogen, hydroxy, alkoxy, alkyl, alkenyl, alkynyl, aryl, halogen, trifluoromethyl, acyl, alkoxycarbonyl and cyano, with the proviso that the compound is not N-4-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-2-indolylcarbamide;

or

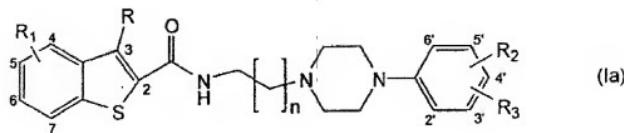
(c) X=Te: R₁ is selected from hydrogen, hydroxy, alkyl, alkoxy, alkenyl, alkynyl, aryl, halogen, trifluoromethyl, acyl, alkoxycarbonyl and cyano and each of R₂ and R₃ are selected independently from hydrogen, hydroxy, alkoxy, alkyl, alkenyl, alkynyl, aryl, halogen, trifluoromethyl, acyl, alkoxycarbonyl and cyano.

wherein the groups alkyl, alkenyl, alkynyl and aryl may optionally be substituted independently of one another,

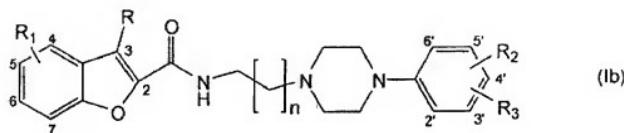
and pharmaceutically acceptable salts of this compound.

2. (cancelled)

3. (currently amended) A compound or a pharmaceutically acceptable salt thereof according to claim 1, the compound having the general formula (Ia) or (Ib):



(Ia)



(Ib)

wherein:

n=1-4,

R=hydrogen, C₁-C₆-alkyl or halogen,

when R₁ is hydrogen, C₁-C₆-alkyloxy, C₂-C₆-alkenyl, C₂-C₆-alkinyl, phenyl that may optionally be substituted with a methoxy group or halogen, C₁-C₆-acyl, C₁-C₆-alkoxy carbonyl or cyano, each of R₂ and R₃ are independently selected from hydrogen, hydroxy, C₁-C₆-alkyloxy, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkinyl, phenyl that may optionally be substituted with a methoxy group or halogen, halogen, trifluoromethyl, C₁-C₆-acyl, C₁-C₆-alkoxycarbonyl and cyano,

when R₁ is hydrogen, C₁-C₆-alkyl, halogen or trifluoromethyl, R₂ is selected from hydroxy, C₂-C₆-alkenyl, C₂-C₆-alkinyl, phenyl that may optionally be substituted with a methoxy group or halogen, C₁-C₆-acyl, C₁-C₆-alkoxycarbonyl and cyano, and R₃ is selected from hydrogen, hydroxy, C₁-C₆-alkyl, C₁-C₆-alkyloxy, C₂-C₆-alkenyl, C₂-C₆-alkinyl, phenyl that may optionally be substituted with a methoxy group or halogen, halogen, trifluoromethyl, C₁-C₆-acyl, C₁-C₆ alkoxycarbonyl, and cyano, and

wherein the groups C₁-C₆-alkyl, C₂-C₆-alkenyl and C₂-C₆-alkinyl may optionally also be substituted independently of one another;

and pharmaceutically acceptable salts thereof.

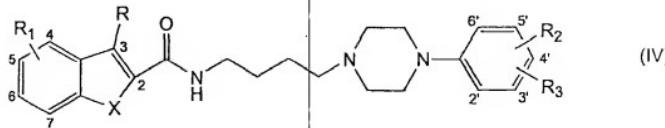
4. -5. (cancelled)

6. (currently amended) A compound or salt thereof according to claim 1 wherein

- the substituent R₁ is in position 5 or 6 of the heterocycle, and
- the substituents R₂ and R₃ are in the positions 2 or 3, respectively, or in the positions 2 or 4, respectively, of the phenyl ring; the respective other substituent being in position 2 of the phenyl ring in the event that one of the two substituents R₂ and R₃ is a hydrogen atom.

7. (currently amended) A compound or salt thereof according to claim 1 wherein n=3.

8. (currently amended) A compound of the general formula (IV) or a pharmaceutically acceptable salt thereof:



wherein:

X=S, NH or O,

R is selected from hydrogen, C₁-C₆-alkyl, fluorine, chlorine and bromine,

R₁ is selected from hydrogen, C₁-C₆-alkoxy, C₁-C₆-alkyl, fluorine, chlorine, bromine, trifluoromethyl and cyano, R₁ being in position 5 or 6 of the heterocycle,

R₂ and R₃ are independently selected from hydrogen, C₁-C₆-alkyloxy, C₁-C₆-alkyl, fluorine, chlorine, bromine and trifluoromethyl, R₂ and R₃ being in the positions 2 or 3, respectively, or in the positions 2 or 4, respectively, of the phenyl ring, and the respective other substituent being in position 2 of the phenyl ring in the event that one of the two substituents R₂ and R₃ is a hydrogen atom, and

wherein the C₁-C₆ alkyl groups are optionally substituted independently of one another

and pharmaceutically acceptable salts of this compound with the proviso that the compound is not N-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-2-indolylcarbamide.

9. (currently amended) A compound or salt according to claim 8, wherein when X=NH, then R₁ is selected from hydrogen, C₁-C₃-alkyloxy, C₁-C₃-alkyl, fluorine, chlorine, bromine and cyano, and when X=S or O, then R₁ is selected from hydrogen, C₁-C₃-alkyl, fluorine, chlorine, bromine, cyano and trifluoromethyl.

10. (currently amended) A compound according to claim 1 selected from
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-5-cyano-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2,3-dichlorophenyl)-piperazinepiperazin-1-yl)butyl-5-cyano-2-benzo[b]thio-
phenylcarbamide,
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-6-cyano-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2,3-dichlorophenyl)-piperazinepiperazin-1-yl)butyl-6-cyano-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2,3-dichlorophenyl)-piperazinepiperazin-1-yl)butyl-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-5-bromo-2-
benzo[b]thiophenylcarbamide,
N-4-(4-(2,3-dichlorophenyl)-piperazinepiperazin-1-yl)butyl-5-bromo-2-benzo[b]thio-
phenylcarbamide,
N-4-(4-(2,3-dichlorophenyl)piperazine-1-yl)butyl-2-indolylcarbamide,
N-4-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-5-cyano-2-indolylcarbamide,
N-4-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-5-bromo-2-indolylcarbamide,
N-4-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-6-cyano-2-indolylcarbamide,
N-4-(4-(2,3-dichlorophenyl)piperazine-1-yl)butyl-5-bromo-2-indolylcarbamide,
N-4-(4-(2,3-dichlorophenyl)piperazine-1-yl)butyl-6-cyano-2-indolylcarbamide,
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-5-cyano-2-b-
benzo[b]furanylcarbamide,
N-4-(4-(2-methoxyphenyl)-piperazinepiperazin-1-yl)butyl-2-
benzo[b]furanylcarbamide,
N-4-(4-(2,3-dichlorophenyl)-piperazinepiperazin-1-yl)butyl-2-
benzo[b]furanylcarbamide,

N-4-(4-(2-methoxyphenyl)piperazinepiperazin-1-yl)butyl-5-bromo-
benzo[b]furanylcarbamide,
N-4-(4-(2,3-dichlorophenyl)piperazinepiperazin-1-yl)butyl-5-bromo-2-
benzo[b]furanylcarbamide,
N-4-(4-(2-methoxyphenyl)piperazine-1-yl)butyl-2-benzene[b]tellurophenylcarbamide
and
N-4-(4-(2,3-dichlorophenyl)piperazine-1-yl)butyl-2-benzene[b]tellurophenylcarbamide

and pharmaceutically acceptable salts thereof.

11. – 13. (cancelled)

14. (currently amended) A therapeutic agent containing comprising one or more of the compounds or salts according to claim 1 and a pharmaceutically acceptable carrier.

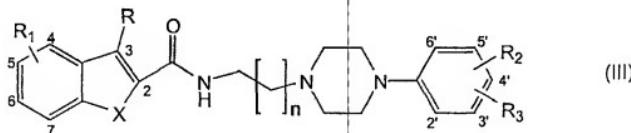
15. (currently amended) A therapeutic agent according to claim 14 further comprising which additionally contains L-DOPA for simultaneous or sequential administration to the patient.

16. (currently amended) The use of a compound according to claim 1 for preparing a therapeutic agent A method for the therapy or prevention of cocaine, alcohol, opiate and nicotine addiction; neurodegenerative disorders, especially Parkinson's disease; sexual dysfunction; depression or schizophrenia, the method comprising administering to a subject in need of such treatment a therapeutic agent comprising a compound or salt according to claim 1.

17. (currently amended) The use of a compound according claim 1 for preparing a therapeutic agent A method for the therapy or prevention of hyperprolactinaemia; hyperprolactinoma; glaucoma; cognitive disorders; restless leg syndrome; hyperactivity syndrome (ADHS); locomotion disorders associated with Parkinson's disease; L-DOPA-induced disorders, Segawa syndrome; tardive locomotion disorders as well as for medication-assisted ablation after pregnancies the method comprising administering to a subject in need of such treatment a therapeutic agent comprising a compound or salt according to claim 1.

18. (currently amended) The use A method according to claim 17, the therapeutic agent being provided for the therapy or prevention of Segawa syndrome; spontaneous dyskinesia or dystonia associated with Parkinson's disease or tardive or L-DOPA induced dyskinesia or dystonia.

19. (currently amended) A method for therapy or prevention of cocaine, alcohol, opiate and nicotine addiction; neurodegenerative disorders, especially Parkinson's disease; or sexual dysfunction, comprising administering to subject in need of such treatment a therapeutic agent comprising The use of a compound of the general formula (III) or a pharmaceutically acceptable salt thereof:



wherein:

n=1-4 and X=S, or O or NH,

when

R[=] is hydrogen, alkyl or halogen, and

R₁ is substituted by the radicals hydrogen, alkyl, halogen, or trifluoromethyl, and each of R₂ and R₃ are substituted individually or jointly by the radicals hydrogen, hydroxy, alkoxy, alkyl, alkenyl, alkynyl, aryl, halogen, trifluoromethyl, acyl, alkoxy carbonyl, or cyano, for preparing a pharmaceutical agent for the therapy or prevention of cocaine, alcohol, opiate and nicotine addiction; neurodegenerative disorders, especially Parkinson's disease; or sexual dysfunction.

20. (currently amended) The use of a compound A method according to claim 19 for preparing a therapeutic agent for the therapy or prevention of depression or schizophrenia.

21. (currently amended) The use of a compound A method according to claim 19 for preparing a therapeutic agent for the therapy or prevention of hyperprolactinaemia; hyperprolactinoma; glaucoma; cognitive disorders; restless leg syndrome; hyperactivity syndrome (ADHS); locomotion disorders associated with Parkinson's disease; L-DOPA-induced disorders, Segawa syndrome; tardive locomotion disorders as well as for medication-assisted ablation after pregnancies.

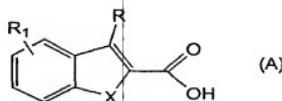
22. (currently amended) The use A method according to claim 21, the therapeutic agent being used for the therapy or prevention of Segawa syndrome, spontaneous dyskinesia or dystonia associated with Parkinson's disease or tardive or L-DOPA induced dyskinesia or dystonia.

23. (currently amended) The use A method according to claim 19 wherein R is selected from hydrogen, C₁-C₆ alkyl, fluorine, chlorine and bromine, R₁ is selected from hydrogen, C₁-C₆ alkoxy, C₁-C₆ alkyl, fluorine, chlorine, bromine and trifluoromethyl, and each of R₂ and R₃ is are independently selected from hydrogen, C₁-C₆ alkoxy, C₁-C₆ alkyl, fluorine, chlorine, bromine and trifluoromethyl
wherein the groups C₁-C₆ alkyl may optionally also be substituted.

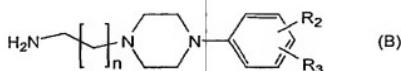
24. (currently amended) The use A method according to claim 19, wherein the substituent R₁ is in position 5 or 6 of the heterocycle, and the substituents R₂ and R₃ are in the positions 2 or 3, respectively, or in the positions 2 or 4, respectively, of the phenyl ring; the respective other substituent being in position 2 of the phenyl ring in the event that one of the two substituents R₂ and R₃ is a hydrogen atom.

25. (cancelled)

26. (currently amended) A method for preparing a compound of claim 1, the general formulae (I), (III), or (IV) as defined above comprising reacting a compound of the general formula (A) in activated form, especially in the form of the carboxylic acid halide



with a compound of the general formula (B):



wherein n, R, R₁, R₂ and R₃ are as defined for the general formulae (I), (III) and (IV).

27. (cancelled)

28. (new) A method according to claim 16, further comprising administering L-dopa.

29. (new) A method according to claim 19, further comprising administering L-dopa.

30. (new) A pharmaceutical composition comprising a compound or salt according to claim 3 and a pharmaceutically acceptable carrier.
31. (new) A pharmaceutical composition according to claim 30, further comprising L-dopa.
32. (new) A pharmaceutical composition comprising a compound or salt according to claim 7 and a pharmaceutically acceptable carrier.
33. (new) A pharmaceutical composition according to claim 32, further comprising L-dopa.
34. (new) A pharmaceutical composition comprising a compound or salt according to claim 8 and a pharmaceutically acceptable carrier.
35. (new) A pharmaceutical composition according to claim 34, further comprising L-dopa.
36. (new) A pharmaceutical composition comprising a compound or salt according to claim 10 and a pharmaceutically acceptable carrier.
37. (new) A pharmaceutical composition according to claim 36, further comprising L-dopa.
38. (new) A method of treating a disease state characterized by disorders in signal transduction of the D3 receptor, comprising administering to a patient in need of such treatment an effective amount of a D3 ligand, wherein the D3 ligand is selected from compounds or salts of claim 1.
39. (new) A method according to claim 38, further comprising administering L-dopa.